

RECEIVED
CENTRAL FAX CENTER

JUL 13 2007

LISTING OF THE CLAIMS

Claims pending

- At time of the Action: Claims 1-2, 4-9, 11-16 and 20.
- After this Response: Claims 1-2, 4-6, 8, 11-16 and 20.

Canceled or Withdrawn claims: 3, 7, 9-10, and 17-19.

Amended claims: 1, 2, 4-6, 8, 11-14, and 20.

New claims: None.

1. (Currently amended) In a fiber optic network including at least one host digital terminal (HDT) that includes at least one optical multiplexing unit (OMU) and at least one optical interface unit (OIU), and including at least one optical network unit (ONU) that includes at least one further OIU, A one or more computer readable storage media having computer executable instructions stored thereon for performing a method for automated distribution of software in a fiber optic network loaded into the OMU, the OIU, and the further OIU, the method comprising:

(a) identifying a version of first software comprised on a plurality of firmware cards located in installed on the OMU a multiplexer in the fiber optic network;

(b) determining whether the version of the first software comprised on the firmware cards located in the multiplexer is a first prescribed software version;

(c) if the version of the first software comprised on at least one of said firmware cards is not the prescribed software version, updating the first software to be the prescribed software version;

(d) identifying a version of furthersecond software comprised on at least a further firmware card located in at least one of a plurality of optical network units that are connected to the multiplexer over a fiber optic connection and that are connected to one another by an optical channel shelf provided by the multiplexer installed on the OIU;

(e) determining whether the version of the further second software comprised on the further firmware card located in the optical network unit is a further second prescribed software version; and

(f) if the ~~further~~ version of the second software comprised in the further firmware card is not the ~~further~~ second prescribed software version, updating the ~~further~~ second software to be the second prescribed software version;

(g) identifying a version of third software installed on the further OIU;

(h) determining whether the version of the third software is a third prescribed software version; and

(i) if the version of the third software is not the third prescribed software version, updating the third software to be the third prescribed software version.;

~~(g) determining whether there is another optical network unit connected to the multiplexor over a fiber optic connection;~~

~~if so, then returning to step (d); and~~

~~if not, then determining whether there is another multiplexor in the fiber optic network and, if so, repeating the method for the other multiplexor.~~

2. (Currently amended) The computer readable media method of claim 1, further comprising instructions for contacting the HDT at least to identify the version of the first software and the version of the second software wherein identifying the software comprised on the firmware cards located in the multiplexor comprises identifying a version for the software.

3. (Cancelled).

4. (Currently amended) The computer readable media method of claim 1, further comprising instructions for determining whether the HDT includes at least a further OMU wherein identifying the software comprised on the firmware cards located in the multiplexor comprises identifying software comprised on an optical interface unit card.

5. (Currently amended) The computer readable media method of claim 14, wherein identifying the software comprised on the firmware cards located in the multiplexor comprises identifying software comprised on an optical multiplexing unit card further comprising instructions for:

identifying a version of software installed on the further OMU;

determining whether the version of the software installed on the further OMU is a prescribed software version; and

if the version of the software installed on the further OMU is not the prescribed software version, updating the software installed on the further OMU to be the prescribed software version.

6. (Currently amended) The computer readable media method of claim 1, wherein identifying the software comprised on the firmware card located in the network unit comprises identifying software comprised on an optical interface unit card further comprising instructions for determining whether the HDT includes at least a further OIU.

7. (Cancelled).

8. (Currently Amended) A method for automated distribution of software in a fiber optic network including at least one host digital terminal (HDT) that includes at least one optical multiplexing unit (OMU) and at least one optical interface unit (OIU), and including at least one optical network unit (ONU) that includes at least one further OIU, the method comprising:

(a) identifying a version of first software installed on the OMU ~~comprised in a multiplexor in the fiber optic network;~~

(b) identifying a version of second software ~~comprised in~~ installed in the further OIU ~~a network unit~~ connected to the multiplexor over a fiber optic connection;

(c) determining whether there is at least a ~~another further network unit~~ ONU connected to the ~~multiplexor~~ OMU over a fiber optic connection;

if so, then identifying a version of software installed in at least one OIU included in the further ONU ~~returning to step (b);~~ and

if not, then:

determining if the second software ~~on the network unit is~~ compatible with the first software ~~on the multiplexor;~~ and

if the first software ~~on any network unit is~~ not compatible with the second software ~~on the multiplexor,~~ then updating the first software ~~on the network unit;~~ and

determining whether ~~there is another multiplexer in the fiber~~
optic network includes at least a further OMU and, if so, repeating
the method for the ~~other further multiplexer~~OMU.

9. Cancelled.

10. Cancelled.

11. (Currently Amended) The method of claim 8, wherein determining if
the second software ~~on the network unit~~ is compatible with the first software ~~on~~
~~the multiplexer~~ comprises determining if a ~~software~~ version of the second
software ~~on the network unit~~ is compatible with a ~~software~~ version ~~on the~~
~~multiplexer~~ of the first software.

12. (Currently Amended) The method of claim 8, wherein identifying a
version of the first software ~~comprised in the multiplexer~~ comprises determining
a version of software installed on a firmware card in the ~~multiplexer~~OMU.

13. (Currently Amended) The method of claim 12, wherein determining
the version of software on the firmware card in the ~~multiplexer~~OMU comprises
determining the version of software on at least one of an optical interface unit
card and an optical multiplexing unit card.

14. (Currently Amended) The method of claim 8, wherein identifying the software comprised in the ~~network unit~~OIU comprises determining a version of software on a firmware card located on the ~~network unit~~OIU.

15. (Previously Presented) The method of claim 14, wherein determining the version of software on the firmware card located on the network unit comprises determining the version of software on an optical interface unit card.

16. (Original) A computer readable medium having computer executable instructions for performing the method of claim 8.

17 - 19. Cancelled.

20. (Currently Amended) A system for automatically distributing software in a fiber optic network including at least one host digital terminal (HDT) that includes at least one optical multiplexing unit (OMU) and at least one optical interface unit (OIU), and including at least one optical network unit (ONU) that includes at least one further OIU, the system comprising:

a processor for executing computer executable instructions; and

memory for storing computer executable instructions, wherein

said memory has stored therein computer executable instructions for performing the following steps:

- (a) initiating a single contact with ~~a the OMU multiplexer in the fiber optic network~~;
- (b) identifying software comprised on ones of a plurality of firmware cards located in the ~~multiplexer OMU~~;
- (c) determining whether the software comprised on the firmware cards located in the ~~multiplexer OMU~~ is a prescribed software version;
- (d) if the software comprised on one of said plurality of firmware cards located in the ~~multiplexer OMU~~ is not the prescribed software version, updating the software;
- (e) identifying software comprised on a firmware card located in ~~a network unit~~ the ONU, wherein the ONU is connected to the ~~multiplexer OMU~~ over a fiber optic connection;
- (f) determining whether the software comprised on the firmware card located in the ~~network unit~~ ONU is a prescribed software version; and
- (g) if the software comprised in the firmware card located in ~~one of the plurality of network units~~ the ONU is not the prescribed software version, updating the software;
- (h) determining whether there is ~~another network unit~~ at least a further ONU connected to the multiplexer over a fiber optic connection;
 - if so, then ~~returning to~~ performing step (e) for the further ONU; and
 - if not, then determining whether there is at least another ~~multiplexer OMU~~ in the fiber optic network and, if so, repeating steps (a) through (h) for the other ~~multiplexer OMU~~.